

03050208-050
(Coosawhatchie River)

General Description

Watershed 03050208-050 is located in Allendale and Hampton Counties and consists primarily of the **Coosawhatchie River** and its tributaries from its origin to Black Creek. The watershed occupies 80,545 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Rains-Bonneau-Ogeechee-Norfolk series. The erodibility of the soil (K) averages 0.14, and the slope of the terrain averages 1%, with a range of 0-6%. Land use/land cover in the watershed includes: 32.5% forested land, 36.1% agricultural land, 24.4% forested wetland, 3.8% barren land, 2.3% urban land, 0.6% nonforested wetland, and 0.3% water.

The Coosawhatchie River originates near the Towns of Allendale and Fairfax and accepts drainage from Swallow Savanna, Harters Pond, Little Duck Branch, Duck Branch, Beech Branch (Levy Bay), Blood Hill Creek, and Cedar Branch. There are a total of 74.6 stream miles and 103.1 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
CSTL-110	P	FW	COOSAWHATCHIE RIVER AT S-03-47
CSTL-540	BIO	FW	COOSAWHATCHIE RIVER AT S-03-350
CSTL-121	W	FW	COOSAWHATCHIE RIVER AT SC 363

Coosawhatchie River – There are three water quality stations along this section of the Coosawhatchie River. At the furthest upstream site (**CSTL-110**), aquatic life uses are partially supported due to dissolved oxygen excursions. In addition, there is a significant decreasing trend in dissolved oxygen concentration. Significant decreasing trends in five-day biochemical oxygen demand, turbidity, and total nitrogen concentrations suggest improving conditions for these parameters. Recreational uses are fully supported at this site. Further downstream (**CSTL-540**), aquatic life uses are fully supported based on macroinvertebrate community data. At the furthest downstream site (**CSTL-121**), aquatic life uses are not supported due to dissolved oxygen excursions. Recreational uses are fully supported at this site.

Groundwater Quality

<u>Well #</u>	<u>Class</u>	<u>Aquifer</u>	<u>Location</u>
AMB-051	GB	PEE DEE/BLACK CREEK	ALLENDALE
AMB-089	GB	TERTIARY LIMESTONE	FAIRFAX

All water samples collected from ambient monitoring wells **AMB-051** and **AMB-089** met standards for Class GB groundwater.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM

FACILITY NAME

PERMITTED FLOW @ PIPE (MGD)

NPDES#

TYPE

COMMENT

COOSAWHATCHIE RIVER

TOWN OF BRUNSON

PIPE #: 001 FLOW: 0.11

SC0042382

MINOR DOMESTIC

Growth Potential

There is a low potential for growth in this watershed, which contains the portions of the Towns of Allendale, Fairfax, and Brunson, and the Town of McColl. Half of Allendale County's population lives in the Towns of Allendale and Fairfax. U.S. Hwy 278 runs between the towns and is projected to support increased commercial growth. There is no indication of industrial growth, but Allendale and Fairfax are the only towns in the county with sewer systems and a rail line to support industry.